

ABSTRACT

A micro fluid analyzer having a concentrator and two or more separators. The analyzer may have one, two or more pumps. The analyzer may have a hyper pre-concentrator having a number of channels. There are numerous detectors positioned along the flow path of the analyzer. Also, one or more orifices and micro valves may be positioned in the flow path. The concentrator may have an array of phased heater elements that provide a heat pulse that moves along the fluid path to provide an increasing concentration of heat. The analyzer may be configured as a multiple fluid or gas chromatograph.